Attorney Docket No.: 50046-003US1 Applicant : Mizhou Hui

Filed : October 4, 2006 Page : 8 of 10 Serial No. : 10/576,995

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of claims:

- 1. (Currently Amended) A chimeric polypeptide comprising:
 - (1) a TNF neutralizer domain;
 - (2) an IL-1 receptor antagonist domain; and
 - (3) a dimerization domain,

wherein the three domains are operably linked[[,]] and the chimeric polypeptide includes SEQ ID NO:2.

- 2. (Original) The chimeric polypeptide of claim 1, wherein the TNF neutralizer domain includes a domain that binds to mammalian TNF or IL-6.
- 3. (Currently Amended) The chimeric polypeptide of claim 2, wherein the TNF neutralizer domain includes an extracellular domain of mammalian TNFR or mammalian IL-6 receptor, or its functional equivalent.
- 4. (Original) The chimeric polypeptide of claim 3, wherein the mammalian TNFR is TNFRII or TNFRI.
- 5. (Original) The chimeric polypeptide of claim 3, wherein the mammalian TNFR is human TNFRII
- 6. (Currently Amended) The chimeric polypeptide of claim 1, wherein the IL-1 receptor antagonist domain includes an IL-1 receptor antagonist (IL-1ra) or its functional equivalent.
- 7. (Original) The chimeric polypeptide of claim 6, wherein the IL-1ra is a glycosylated mammalian polypeptide.

Applicant : Mizhou Hui Attorney Docket No.: 50046-003US1

Serial No. : 10/576,995 Filed : October 4, 2006 Page

: 9 of 19

8. (Original) The chimeric polypeptide of claim 1, wherein the dimerization domain includes a human Ig Fc fragment.

- 9. (Original) The chimeric polypeptide of claim 8, wherein the human Ig Fc fragment is an IgG1 Fc fragment.
- 10. (Currently Amended) The chimeric polypeptide of claim 1, wherein the chimeric polypeptide includes, from the N-terminus to the C-terminus, a TNF neutralizer domain, a dimerization domain, and an IL-1 receptor antagonist domain; or functional equivalents thereof.
 - 11-12. (Cancelled)
- 13. (Original) A polynucleotide comprising a sequence encoding the chimeric polypeptide of claim 1.
 - 14. (Original) A cell comprising a polynucleotide of claim 13.
- 15. (Original) The cell of claim 14, wherein the cell is a mammalian cell, a bacterial cell, a yeast cell, an insect cell, or a plant cell.
- 16. (Original) The cell of claim 15, wherein the cell is a CHO cell or a NSO cell or a SP/2/0 cell.
- 17. (Original) A composition comprising a chimeric polypeptide of claim 1 and a pharmaceutical acceptable carrier.
- 18. (Original) A composition comprising a polynucleotide of claim 13 and a pharmaceutical acceptable carrier.

Applicant : Mizhou Hui Attorney Docket No.: 50046-003US1

Serial No. : 10/576,995 Filed : October 4, 2006 Page : 10 of 19

 (Currently Amended) A method of treating a TNF₂ and IL-1₂dependent disorder, comprising administering to a subject in need thereof an effective amount of a composition of claim 17.

- 20. (Currently Amended) The method of claim <u>27</u> [[19]], wherein the disorder is an inflammatory disorder.
- (Original) The method of claim 20, wherein the inflammatory disorder is rheumatoid arthritis or psoriasis.
- (Withdrawn) A method of treating a TNF and IL-I dependent disorder, comprising administering to a subject in need thereof an effective amount of a composition of claim 18.
- 23. (Withdrawn) The method of claim 22, wherein the disorder is an inflammatory disorder.
- (Withdrawn) The method of claim 23, wherein the inflammatory disorder is rheumatoid arthritis or psoriasis.
 - 25. (Original) A vector comprising a polynucleotide of claim 13.
- 26. (Original) A method of producing a polypeptide, comprising culturing the cell of claim 14 in a medium under conditions permitting expression of a polypeptide encoded by the polynucleotide, and purifying the polypeptide from the cultured cell or the medium of the cell.
- 27. (New) The method of claim 19, wherein the disorder is selected from the group consisting of an inflammatory disease, an acute hepatitis, a cardiovascular disease, a graft versus host disease, and a brain injury resulting from trauma, epilepsy, hemorrhage, and stroke.

Applicant : Mizhou Hui Attorney Docket No.: 50046-003US1

Serial No. : 10/576,995 Filed : October 4, 2006 : 11 of 19 Page

28. (New) The method of claim 27, wherein the disorder is a cardiovascular disease or a brain injury resulting from stroke.